AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
J	1 | 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO.(If applicable)
0002	02-Jul-2003	W26GLG-3167-0984	

6. ISSUED BY	CODE	7. ADMINISTERED BY (If other than item 6)	CODE
CONTRACTING OFFICE (CA/CW) US ARMY ENGR DIST NORFOLK ATTN: CENAO-SS-C 803 FRONT STREET NORFOLK VA 23510-1096	DACA65	**See Item 6**	

8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		
	X	9A. AMENDMENT OF SOLICITATION NO. DACA65-03-B-0014
	X	9B. DATED (SEE ITEM 11) 01-Jul-2003
		10A. MOD. OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)
CODE / FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer [ ] is extended, [X] is not extended.

Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

[ ] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

[ ] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).

[ ] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

[ ] D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor [ ] is not, [ ] is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

AMENDMENT NO. 0002 to DACA65-03-B-0014, Medical Logistics Warehouse, Langley Air Force Base, VA.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) TEL: EMAIL:	
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED 02-Jul-2003

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

The following items are applicable to this modification:

CONTINUATION

Technical plans and specifications are amended. Make appropriate changes in accordance with the following:

NOTE: DRAWINGS AND SPECIFICATIONS ISSUED WITH BASIC SOLICITATION DATED JULY 1, 2003 SHALL SUPERSEDE AFFECTED DRAWINGS AND SPECIFICATIONS ISSUED WITH AMENDMENT NO. 0001 DATED JULY 2, 2003.

DRAWINGS

Sheet Numbers C-001, CD101, CD102, CD103, C-101, C-102, C-104, C-501 are revised as of June 12, 2003. These revised sheets accompany this amendment.

Sheet Number C-001 add the following additional information: NEW SANITARY SCHEDULE, STRUCTURE DATA: For Structure A, change proposed 8-inch invert elevation to read "INV. 10" (SW) = 3.12". For Structure B, change proposed 8-inch invert elevation to read "INV. 10" (NE) = 2.11".
NEW SANITARY SCHEDULE, PIPE DATA: From Structure A to B, change 8" SAN. @ 2.42% to read "10" SAN. @ 2.24%".

Sheet Number ES103, DETAIL F4/ES101 & ES102/ES103 ADD C4 – 4" Conduit (SPARE) to the detail notes. Modify the detail to include an additional 4" conduit.

PROJECT TABLE OF CONTENTS

Delete section 02754, "Concrete Pavements for Small Projects" and replace it with 02754X in its entirety.

DIVISION 01 GENERAL REQUIREMENTS

SECTION 01330 – SUBMITTAL PROCEDURES

Make the following changes to the Submittal Register:

On page 4 of 35, change specification section 02754 to read as follows:

SPEC SECT (c)	DESCRIPTION ITEM SUBMITTED (d)	PARAGRAPH # (e)
02754X	SD-03 Product Data	
	Mixture Proportions	2.9
	SD-06 Test Reports	
	Joint sealer	3.11.7.1
	SD-08 Manufacturer's Instructions	
	Joint sealants	2.6.3
	SD-11 Closeout submittals	
	Joint sealer	3.11.7.1

	Joint filler	2.6.1

On page 8 of 35, add "G AE" in column (f) to all items of Spec Sect 05120.

SECTION 01451 – Contractor Quality Control

Delete paragraph 3.4.3 CQC Personnel

DIVISION 02 SITE WORK

SECTION 02072 – EXCAVATION OF PETROLEUM CONTAMINATED SOIL

1.5 AVAILABLE DATA

Delete the last sentence and replace with the following: "A subsurface soil investigation was also conducted by IMS Environmental Services (IMS). The results of the investigations including boring logs and laboratory report (s) is an attachment to this amendment.

DIVISION 05 METALS

SECTION 05120 – STRUCTURAL STEEL

1.4 SUBMITTALS

Under SD-03 Product Data, add "G|AE" to each item listed.

Under SD-06 Test Reports, add "G|AE" to each item listed.

Under SD-07 Certificates, add "G|AE" to each item listed.

SECTION 08710 – DOOR HARDWARE

PART 2 PRODUCTS

2.3.9 Closers

Add the following new subparagraph:

"2.3.9.1 Closer w/EHO (Electronic Hold Open)

Provide multi-point hold-open closers of same manufacturer of standard closers and of same grade and size requirements, except with built-in electronic holding assembly for release of doors when activated by fire/smoke detection and alarm system. UL listed and approved. Provide closer unit with transformer required to interface with 120 Volt, single phase power supply."

PART 3 EXECUTION

3.5 HARDWARE SETS

HW-6

Change the 3rd line "Closer" to read as follows:

"1 Closer w/EHO As specified x 692/600"

HW-7

Change the 3rd line "Closers" to read as follows:

"2 Closers w/EHO As specified x 692/600"

MEDICAL WAREHOUSE - SOIL INVESTIGATION

United States Army Corps of Engineers, Norfolk District
Langley Air Force Base
Medical Warehouse
Hampton, Virginia

IMS Project Number: 351.3418

Submitted To:
Mr. Marc Gutterman
United States Army Corps of Engineers, Norfolk District
GeoEnvironmental Branch
803 Front Street
Norfolk, Virginia 23510
(757) 441-7669

Prepared By:
IMS Environmental Services
929 Professional Place
Chesapeake, VA 23320

Prepared By:_____
Douglas E. Macnab
Project Manager

Reviewed by:_____
Robert Reali, P.E.
Project Manager

May 2, 2003

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

1.0 INTRODUCTION

IMS Environmental Services (IMS) was contracted by the United States Army Corps of Engineers (USACE) to perform a subsurface soil investigation at the proposed Medical Warehouse site at Langley Air Force Base, Hampton, Virginia. This site work is being conducted to pre-determine the existence of any environmental problems before excavation begins (Figures 1 and 2).

2.0 SITE HISTORY

The site is currently a parking lot adjacent to the Hospital at Langley Air Force Base. Several utilities cross the site. However, there are no known tanks or petroleum problems located on the site. A solvent odor was observed during Geo-technical boring B-4.

3.0 SITE ASSESSMENT PROCEDURES

As part of this investigation, IMS conducted soil sampling, using Environmental Science Corporation (ESC) a USACE validated laboratory. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylene (BTEX), total petroleum hydrocarbons: gasoline-range organics and diesel-range organics (TPH-GRO and -DRO), and Naphthalene. Samples were collected using a direct push Geoprobe. The Geoprobe advanced a hollow tube sampler lined with an acetate sleeve into the subsurface at four-foot intervals. Soil collected in this sleeve was used for the sample. Sampling locations focused on the site of proposed building construction as illustrated in Figure 2. Results of the soil investigation are presented in Section 4.

All samples were numbered as to their site designation, soil boring, and the depth below ground surface that the sample was collected. For example, SB-02-07 represents a soil sample from soil boring location number SB-02 collected at a depth of 7 feet below grade surface. Soil samples were labeled for each soil boring.

4.0 INVESTIGATION RESULTS

4.1 Soil Sampling Results

As hydrocarbons migrate vertically through the vadose zone and horizontally via groundwater flow, a percentage of the hydrocarbons will become adsorbed to the soil particles. Soil borings to sample adsorbed phase hydrocarbons were collected by a Geoprobe®.

Figure 2 illustrates Geoprobe® soil boring locations. Soil borings were collected to a depth 8-feet. Table 1 describes each soil boring, as to the onsite apparent petroleum impact using visual and olfactory methods. Select samples were screened utilizing a Photo Ionization Detector (PID).

Table 1: Geoprobe® Soil Boring Field Observations

Boring ID	Description of Soil Boring
SB-01	No apparent petroleum odor or staining to 8 feet bgs. PID reading at 5-foot mark was 0.0 ppm. Collected soil sample SB-01-05.
SB-02	No apparent petroleum odor or staining to 8 feet bgs. PID reading at 5-foot mark was 0.3 ppm. Collected soil sample SB-02-05.
SB-03	No apparent petroleum odor or staining to 8 feet bgs. No samples collected at this location.
SB-04	No apparent petroleum odor or staining to 8 feet bgs. PID reading at 5-foot mark was 0.0 ppm. No samples collected at this location.
SB-05	Refusal at 2 foot bgs. No apparent petroleum odor or staining. No samples collected at this location.
SB-06	No apparent petroleum odor or staining to 8 feet bgs. PID reading at 5-foot mark was 3.0 ppm. No samples collected at this location.

Field Work conducted on April 3, 2003

The soil samples collected from soil borings SB-01 and SB-02 were sent to Environmental Science Corp. Laboratory in Mt. Juliet, Tennessee. Analytical results for those samples are summarized in Table 2, with the laboratory report located in Appendix A.

Table 2: Soil Analytical Results

ID	Parameter	Result	Units	DL	DF
SB-01-05	Benzene	BDL	mg/kg	0.0059	5
	Toluene	0.038	mg/kg	0.029	5
	Ethylbenzene	BDL	mg/kg	0.0059	5
	Xylene (total)	BDL	mg/kg	0.018	5
SB-02-05	TPH-DRO(C10-C28)	300	mg/kg	4.8	1
	TPH-GRO (C6-C10)	0.67	mg/kg	0.59	5
	Benzene	BDL	mg/kg	0.0059	5
	Toluene	0.10	mg/kg	0.030	5
	Ethylbenzene	BDL	mg/kg	0.0059	5
	Xylene (total)	BDL	mg/kg	0.18	5
	Naphthalene	BDL	mg/kg	0.030	5

DL – Detection Limit; **DF** - Dilution Factor; **BDL -** Below Detection Limit

Soil samples collected at soil borings SB-02 had TPH-DRO concentrations above the Virginia Department of Environmental Quality action limit of 100 ppm. The TPH concentration in soil boring SB-02 is located on the Northeast corner of the proposed Medical Logistics Warehouse. Total BTEX levels were detected at both sample locations. Naphthalene was below detectable levels for SB-02-05. Figure 3 depicts the above analytical results in relation to the proposed construction of the new Medical Logistics Warehouse.

During the geological investigation a solvent odor was detected in soil boring #4. IMS collected soil sample SB-01-05 at this location. IMS did not detect either a petroleum or solvent odor during the collection of this sample. Table 3 is a summary of the constituents analyzed.

Table 3: Analytical Results for SB-01

ID	Parameter	Result	Units	DL	DF
SB-01-05	Cyanide	BDL	mg/kg	0.098	1
	Extracted TOX	BDL	mg/kg	29	1
	Total Organic Carbon	10,000	mg/kg	12	1
	Ignitability	> 170	ºF		1
	Corrosivity	Non-Corrosive			1
	Reactive CN	BDL	mg/kg	0.0059	1
	Reactive Sulf	BDL	mg/kg	29	1
	Mercury	0.028	mg/kg	0.024	1
	Aluminum	8,500	mg/kg	5.9	1
	Antimony	1.7	mg/kg	0.29	1
	Arsenic	2.3	mg/kg	0.59	1
	Barium	33	mg/kg	0.29	1
	Beryllium	0.52	mg/kg	0.12	1
	Cadmium	BDL	mg/kg	0.29	1
	Chromium	24	mg/kg	0.59	1
	Cobalt	2.0	mg/kg	0.59	1
	Copper	3.8	mg/kg	0.59	1
	Iron	8,000	mg/kg	2.9	1
	Lead	10	mg/kg	0.29	1
	Magnesium	590	mg/kg	5.9	1
	Manganese	70	mg/kg	0.59	1
	Nickel	5.8	mg/kg	0.59	1
	Potassium	260	mg/kg	29	1
	Selenium	1.6	mg/kg	0.59	1
	Silver	BDL	mg/kg	0.29	1
	Sodium	410	mg/kg	29	1

Table 3: Soil Analytical Results for SB-01 (Cont)

ID	Parameter	Result	Units	DL	DF
SB-01-05	Thallium	2.4	mg/kg	0.59	1
	Vanadium	29	mg/kg	0.59	1
	Zinc	11	mg/kg	1.8	1
	Volatile Organics (excluding Toluene)	BDL	mg/kg	Various	5
	Toluene	0.038	mg/kg	0.029	5
	Pesticides/PCBs	BDL	mg/kg	Various	1
	Semi-volatile Organics	BDL	mg/kg	0.78	2

DL – Detection Limit; **DF** - Dilution Factor; **BDL -** Below Detection Limit

4.2 Water Sampling Results

Water samples were not collected from this site.

5.0 CONCLUSIONS

The soils generated by excavation of the footer for the proposed Medical Logistics Warehouse should be screened for petroleum impact utilizing either a PID or flame ionization detector in the vicinity of SB-02. Petroleum impacted soil should be segregated, stockpiled, sampled, and recycled or disposed of at an approved disposal/recycling facility.

Possible disposal methods include thermal destruction or landfarming; both of which are available in the Hampton Roads area. Costs for transportation and disposal of soil in the 5 to 10,000 mg/kg range, would be between $55 and $65 per cubic yard, depending on excavation and stockpiling procedures.

FIGURES

APPENDIX A

Laboratory Analytical Report

Company Name/Address:

IMS Environmental Services-Virginia

PO Box 1779
Norfolk.VA 23501-1779

Alternate billing information:

Analysis/Container/Preservative

Chain of Custody
Page ___ of ___

Prepared by:

ENVIRONMENTAL SCIENCE CORP.
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone (615) 758-5858
Phone (800) 767-5859
FAX (615) 758-5859

Report to: IMS Environmental

Email to: dmacnab@imsenv.com

Project Description: ACOE Medical Warehouse

City/Sate Collected: Langley, VA

Phone: (757) 436-3000
FAX: (757) 436-5266

Client Project #: 351.3418

ESC Key:

Collected by: D. Macnab

Site/Facility ID#:

P.O.#: 51451-C

Collected by (signature): Douglas E. Macnab

Packed on Ice N (Y)

Rush? (Lab MUST Be Notified)
____ Same Day. 200%
____ Next Day. 100%
____ Two Day 50%
X 3 Day

Date Results Needed:

Email? __No X Yes
FAX? X No __Yes

CoCode **IMSENVVA** (lab use only)
Template/Prelogin
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	BTEX, Naphthalene, EPH (GRO)	TPH (DRO)	TAL Inorganics, 23 Metals, CN	TCL Volatiles, TCL Semi-Vols	Pesticides, PCBs	Ignitability, Corrosivity, Reactivity	Total Organic Carbon	TOX	Remarks/Contaminant	Sample # (lab only)
SB-01-05	Grab	Soil	4-6'	4/3/03	9:15	7			X	X	X	X	X	X	PID = 0.0	L109468-01
SB-02-05	Grab	Soil	5'	4/3/03	9:50	2	X	X							PID = 0.3	02

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
Douglas E. Macnab	4/3/03	1445			OK JH
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.0° / Bottles Received: 9-402	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-4-03 / Time: 9:00	pH Checked: / NCF: ✓

ENVIRONMENTAL SCIENCE CORP.

SAMPLE NON-CONFORMANCE FORM

Sample No. : L169468

Date: 4/4/03

Evaluated by: Lacy

Client: IMSENVVA

Non-Conformance (check applicable items)

_____	Chain of Custody is missing	X	Login Clarification Needed
_____	Improper container type	_____	Improper preservation
_____	Chain of custody is incomplete	_____	Container lid not in tact
_____	Parameter(s) past holding time	_____	Improper temperature
_____	Broken container(s) **see below**	_____	Broken container: sufficient sample volume remains for analysis requested

_____ Insufficient packing material around container

_____ Insufficient packing material inside cooler

_____ Improper handling by carrier (FedEx / UPS / Courier)

_____ Sample was frozen

Comments: ① What analysis for TAL Inorganics, Metals, Volatiles + semi-volatiles for SB-01-05.
② What method for BTEX, Naphth for SB0205

Login Instructions: **TSR Initials:** Q

Client informed by: call / email / fax / voice mail date: 4-4-03 time: 240 pm

Client contact: ROB

① metals, ~~Ent~~ by M6010 TAL, CN, SV8270TCL. V8260TCL for SB-01-05

② V8260 BTEXN

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Douglas Macnab
IMS Environmental Services-Virginia
P.O. Box 1779
Norfolk, VA 23501-1779

April 11,2003

ESC Sample # : L109468-01

Site ID :

Project # : 351.3418

Date Received : April 04, 2003
Description : ACOE-Medical Warehouse

Sample ID : SB-01-05 4-6 FT

Collected By : D Macnab
Collection Date : 04/03/03 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Corrosivity		Non-Corrosiv		9040A	04/04/03	1
Cyanide	BDL	0.098	mg/kg	9012	04/09/03	1
Extracted TOX	BDL	29.	mg/kg	9023	04/09/03	1
Ignitability		See Footnote	Deg. F	D4982	04/09/03	1
Reactive CN (SW846 7.3.4.1)	BDL	0.0059	mg/kg	9012A	04/09/03	1
Reactive Sulf.(SW846 7.3.4.2)	BDL	29.	mg/kg	9030B	04/08/03	1
TOC (Total Organic Carbon)	10000	12.	mg/kg	9060	04/09/03	1
Total Solids	84.9		%	2540G	04/09/03	1
Mercury	0.028	0.024	mg/kg	7471	04/08/03	1
Aluminum	8500	5.9	mg/kg	6010B	04/09/03	1
Antimony	1.7	0.29	mg/kg	6010B	04/09/03	1
Arsenic	2.3	0.59	mg/kg	6010B	04/09/03	1
Barium	33.	0.29	mg/kg	6010B	04/09/03	1
Beryllium	0.52	0.12	mg/kg	6010B	04/09/03	1
Cadmium	BDL	0.29	mg/kg	6010B	04/09/03	1
Calcium	2200	29.	mg/kg	6010B	04/09/03	1
Chromium	24.	0.59	mg/kg	6010B	04/09/03	1
Cobalt	2.0	0.59	mg/kg	6010B	04/09/03	1
Copper	3.8	0.59	mg/kg	6010B	04/09/03	1
Iron	8000	2.9	mg/kg	6010B	04/09/03	1
Lead	10.	0.29	mg/kg	6010B	04/09/03	1
Magnesium	590	5.9	mg/kg	6010B	04/09/03	1
Manganese	70.	0.59	mg/kg	6010B	04/09/03	1
Nickel	5.8	0.59	mg/kg	6010B	04/09/03	1
Potassium	260	29.	mg/kg	6010B	04/09/03	1
Selenium	1.6	0.59	mg/kg	6010B	04/09/03	1
Silver	BDL	0.29	mg/kg	6010B	04/09/03	1
Sodium	410	29.	mg/kg	6010B	04/09/03	1
Thallium	2.4	0.59	mg/kg	6010B	04/09/03	1
Vanadium	29.	0.59	mg/kg	6010B	04/09/03	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted
L109468-01 (IGNITABILITY) - Does not flash @ 170

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Est. 1970

REPORT OF ANALYSIS

Mr. Douglas Macnab
IMS Environmental Services-Virginia
P.O. Box 1779
Norfolk, VA 23501-1779

April 11,2003

ESC Sample # : L109468-01

Date Received : April 04, 2003
Description : ACOE-Medical Warehouse

Site ID :

Sample ID : SB-01-05 4-6 FT

Project # : 351.3418

Collected By : D Macnab
Collection Date : 04/03/03 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Zinc	11.	1.8	mg/kg	6010B	04/09/03	1
Volatile Organics						
Acetone	BDL	0.29	mg/kg	8260B	04/08/03	5
Benzene	BDL	0.0059	mg/kg	8260B	04/08/03	5
Bromodichloromethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
Bromoform	BDL	0.0059	mg/kg	8260B	04/08/03	5
Bromomethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
Carbon disulfide	BDL	0.0059	mg/kg	8260B	04/08/03	5
Carbon tetrachloride	BDL	0.0059	mg/kg	8260B	04/08/03	5
Chlorobenzene	BDL	0.0059	mg/kg	8260B	04/08/03	5
Chlorodibromomethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
Chloroethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
Chloroform	BDL	0.029	mg/kg	8260B	04/08/03	5
Chloromethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
1,1-Dichloroethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
1,2-Dichloroethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
1,1-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/08/03	5
cis-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/08/03	5
trans-1,2-Dichloroethene	BDL	0.0059	mg/kg	8260B	04/08/03	5
1,2-Dichloropropane	BDL	0.0059	mg/kg	8260B	04/08/03	5
cis-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/08/03	5
trans-1,3-Dichloropropene	BDL	0.0059	mg/kg	8260B	04/08/03	5
Ethylbenzene	BDL	0.0059	mg/kg	8260B	04/08/03	5
2-Hexanone	BDL	0.29	mg/kg	8260B	04/08/03	5
2-Butanone (MEK)	BDL	0.29	mg/kg	8260B	04/08/03	5
Methylene Chloride	BDL	0.029	mg/kg	8260B	04/08/03	5
4-Methyl-2-pentanone (MIBK)	BDL	0.29	mg/kg	8260B	04/08/03	5
1,1,2,2-Tetrachloroethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
Tetrachloroethene	BDL	0.0059	mg/kg	8260B	04/08/03	5
Toluene	0.038	0.029	mg/kg	8260B	04/08/03	5
1,1,1-Trichloroethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
1,1,2-Trichloroethane	BDL	0.0059	mg/kg	8260B	04/08/03	5
Trichloroethene	BDL	0.0059	mg/kg	8260B	04/08/03	5
Vinyl chloride	BDL	0.0059	mg/kg	8260B	04/08/03	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	04/08/03	5
Surrogate Recovery						
Toluene-d8	98.		% Rec.	8260B	04/08/03	5
Dibromofluoromethane	100		% Rec.	8260B	04/08/03	5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted
L109468-01 (IGNITABILITY) - Does not flash @ 170

ENVIRONMENTAL
SCIENCE CORP.

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Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Douglas Macnab
IMS Environmental Services-Virginia
P.O. Box 1779
Norfolk, VA 23501-1779

April 11,2003

ESC Sample # : L109468-01

Site ID :

Project # : 351.3418

Date Received : April 04, 2003
Description : ACOE-Medical Warehouse

Sample ID : SB-01-05 4-6 FT

Collected By : D Macnab
Collection Date : 04/03/03 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
4-Bromofluorobenzene	100		% Rec.	8260B	04/08/03	5
Pesticide/PCBs						
Aldrin	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Alpha BHC	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Beta BHC	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Delta BHC	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Gamma BHC	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Chlordane	BDL	0.24	mg/kg	8081/8082	04/09/03	1
4,4-DDD	BDL	0.024	mg/kg	8081/8082	04/09/03	1
4,4-DDE	BDL	0.024	mg/kg	8081/8082	04/09/03	1
4,4-DDT	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Dieldrin	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Endosulfan I	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Endosulfan II	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Endosulfan sulfate	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Endrin	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Endrin aldehyde	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Heptachlor	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Heptachlor epoxide	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Methoxychlor	BDL	0.024	mg/kg	8081/8082	04/09/03	1
Toxaphene	BDL	0.47	mg/kg	8081/8082	04/09/03	1
PCB 1016	BDL	0.24	mg/kg	8081/8082	04/09/03	1
PCB 1221	BDL	0.24	mg/kg	8081/8082	04/09/03	1
PCB 1232	BDL	0.47	mg/kg	8081/8082	04/09/03	1
PCB 1242	BDL	0.24	mg/kg	8081/8082	04/09/03	1
PCB 1248	BDL	0.24	mg/kg	8081/8082	04/09/03	1
PCB 1254	BDL	0.24	mg/kg	8081/8082	04/09/03	1
PCB 1260	BDL	0.24	mg/kg	8081/8082	04/09/03	1
Pest/PCBs Surrogates						
Decachlorobiphenyl	74.		% Rec.	8081/8082	04/09/03	1
Tetrachloro-m-xylene	60.		% Rec.	8081/8082	04/09/03	1
TCL Base/Neutral Extractables						
Acenaphthene	BDL	0.78	mg/kg	8270C	04/09/03	2
Acenaphthylene	BDL	0.78	mg/kg	8270C	04/09/03	2
Anthracene	BDL	0.78	mg/kg	8270C	04/09/03	2
Benzo(a)anthracene	BDL	0.78	mg/kg	8270C	04/09/03	2
Benzo(b)fluoranthene	BDL	0.78	mg/kg	8270C	04/09/03	2

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233
Note:

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L109468-01 (IGNITABILITY) - Does not flash @ 170

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Est. 1970

REPORT OF ANALYSIS

Mr. Douglas Macnab
IMS Environmental Services-Virginia
P.O. Box 1779
Norfolk, VA 23501-1779

April 11,2003

ESC Sample # : L109468-01

Site ID :

Project # : 351.3418

Date Received : April 04, 2003
Description : ACOE-Medical Warehouse

Sample ID : SB-01-05 4-6 FT

Collected By : D Macnab
Collection Date : 04/03/03 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.78	mg/kg	8270C	04/09/03	2
Benzo(g,h,i)perylene	BDL	0.78	mg/kg	8270C	04/09/03	2
Benzo(a)pyrene	BDL	0.78	mg/kg	8270C	04/09/03	2
Bis(2-chlorethoxy)methane	BDL	0.78	mg/kg	8270C	04/09/03	2
Bis(2-chloroethyl)ether	BDL	0.78	mg/kg	8270C	04/09/03	2
Bis(2-chloroisopropyl)ether	BDL	0.78	mg/kg	8270C	04/09/03	2
4-Bromophenyl-phenylether	BDL	0.78	mg/kg	8270C	04/09/03	2
Carbazole	BDL	0.78	mg/kg	8270C	04/09/03	2
4-Chloroaniline	BDL	0.78	mg/kg	8270C	04/09/03	2
2-Chloronaphthalene	BDL	0.78	mg/kg	8270C	04/09/03	2
4-Chlorophenyl-phenylether	BDL	0.78	mg/kg	8270C	04/09/03	2
Chrysene	BDL	0.78	mg/kg	8270C	04/09/03	2
Dibenz(a,h)anthracene	BDL	0.78	mg/kg	8270C	04/09/03	2
Dibenzofuran	BDL	0.78	mg/kg	8270C	04/09/03	2
3,3-Dichlorobenzidine	BDL	0.78	mg/kg	8270C	04/09/03	2
2,4-Dinitrotoluene	BDL	0.78	mg/kg	8270C	04/09/03	2
2,6-Dinitrotoluene	BDL	0.78	mg/kg	8270C	04/09/03	2
Fluoranthene	BDL	0.78	mg/kg	8270C	04/09/03	2
Fluorene	BDL	0.78	mg/kg	8270C	04/09/03	2
Hexachlorobenzene	BDL	0.78	mg/kg	8270C	04/09/03	2
Hexachloro-1,3-butadiene	BDL	0.78	mg/kg	8270C	04/09/03	2
Hexachlorocyclopentadiene	BDL	0.78	mg/kg	8270C	04/09/03	2
Hexachloroethane	BDL	0.78	mg/kg	8270C	04/09/03	2
Indeno(1,2,3-cd)pyrene	BDL	0.78	mg/kg	8270C	04/09/03	2
Isophorone	BDL	0.78	mg/kg	8270C	04/09/03	2
2-Methylnaphthalene	BDL	0.78	mg/kg	8270C	04/09/03	2
Naphthalene	BDL	0.78	mg/kg	8270C	04/09/03	2
2-Nitroaniline	BDL	0.78	mg/kg	8270C	04/09/03	2
3-Nitroaniline	BDL	0.78	mg/kg	8270C	04/09/03	2
4-Nitroaniline	BDL	0.78	mg/kg	8270C	04/09/03	2
Nitrobenzene	BDL	0.78	mg/kg	8270C	04/09/03	2
n-Nitrosodiphenylamine	BDL	0.78	mg/kg	8270C	04/09/03	2
n-Nitrosodi-n-propylamine	BDL	0.78	mg/kg	8270C	04/09/03	2
Phenanthrene	BDL	0.78	mg/kg	8270C	04/09/03	2
Benzylbutyl phthalate	BDL	0.78	mg/kg	8270C	04/09/03	2
Bis(2-ethylhexyl)phthalate	BDL	0.78	mg/kg	8270C	04/09/03	2
Di-n-butyl phthalate	BDL	0.78	mg/kg	8270C	04/09/03	2
Diethyl phthalate	BDL	0.78	mg/kg	8270C	04/09/03	2
Dimethyl phthalate	BDL	0.78	mg/kg	8270C	04/09/03	2

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted
L109468-01 (IGNITABILITY) - Does not flash @ 170

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REPORT OF ANALYSIS

Mr. Douglas Macnab
IMS Environmental Services-Virginia
P.O. Box 1779
Norfolk, VA 23501-1779

April 11,2003

ESC Sample # : L109468-01

Site ID :

Project # : 351.3418

Date Received : April 04, 2003
Description : ACOE-Medical Warehouse

Sample ID : SB-01-05 4-6 FT

Collected By : D Macnab
Collection Date : 04/03/03 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Di-n-octyl phthalate	BDL	0.78	mg/kg	8270C	04/09/03	2
Pyrene	BDL	0.78	mg/kg	8270C	04/09/03	2
1,2,4-Trichlorobenzene	BDL	0.78	mg/kg	8270C	04/09/03	2
TCL Acid Extractables						
4-Chloro-3-methylphenol	BDL	0.78	mg/kg	8270C	04/09/03	2
2-Chlorophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
2,4-Dichlorophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
2,4-Dimethylphenol	BDL	0.78	mg/kg	8270C	04/09/03	2
4,6-Dinitro-2-methylphenol	BDL	0.78	mg/kg	8270C	04/09/03	2
2,4-Dinitrophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
2-Nitrophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
4-Nitrophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
Pentachlorophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
Phenol	BDL	0.78	mg/kg	8270C	04/09/03	2
2,4,5-Trichlorophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
2,4,6-Trichlorophenol	BDL	0.78	mg/kg	8270C	04/09/03	2
Surrogate Recovery						
Nitrobenzene-d5	42.		% Rec.	8270C	04/09/03	2
2-Fluorobiphenyl	46.		% Rec.	8270C	04/09/03	2
p-Terphenyl-d14	49.		% Rec.	8270C	04/09/03	2
Phenol-d5	23.		% Rec.	8270C	04/09/03	2
2-Fluorophenol	20.		% Rec.	8270C	04/09/03	2
2,4,6-Tribromophenol	38.		% Rec.	8270C	04/09/03	2

Jimmy Hunt, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted
Reported: 04/10/03 15:55 Printed: 04/11/03 09:29
L109468-01 (IGNITABILITY) - Does not flash @ 170

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REPORT OF ANALYSIS

Mr. Douglas Macnab
IMS Environmental Services-Virginia
P.O. Box 1779
Norfolk, VA 23501-1779

April 11,2003

ESC Sample # : L109468-02

Site ID :

Project # : 351.3418

Date Received : April 04, 2003
Description : ACOE-Medical Warehouse

Sample ID : SB-02-05 5 FT

Collected By : D Macnab
Collection Date : 04/03/03 09:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	84.2		%	2540G	04/09/03	1
TPH (GC/FID) Low Fraction	0.67	0.59	mg/kg	GRO	04/07/03	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene	95.		% Rec.	GRO	04/07/03	5
Benzene	BDL	0.0059	mg/kg	8260B	04/08/03	5
Toluene	0.10	0.030	mg/kg	8260B	04/08/03	5
Ethylbenzene	BDL	0.0059	mg/kg	8260B	04/08/03	5
Xylenes, Total	BDL	0.018	mg/kg	8260B	04/08/03	5
Naphthalene	BDL	0.030	mg/kg	8260B	04/08/03	5
Surrogate Recovery						
Toluene-d8	97.		% Rec.	8260B	04/08/03	5
Dibromofluoromethane	98.		% Rec.	8260B	04/08/03	5
4-Bromofluorobenzene	99.		% Rec.	8260B	04/08/03	5
TPH (GC/FID) High Fraction	300	4.8	mg/kg	8015	04/09/03	1
Surrogate Recovery (50-150)						
o-Terphenyl	79.		% Rec.	8015	04/09/03	1

Jimmy Hunt, ESC Representative

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:
A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01
KY - 90010, KYUST - 0016, NC - ENV375,DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

Note:

The reported analytical results relate only to the sample submitted
Reported: 04/10/03 15:55 Printed: 04/11/03 09:29

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
L109468-01	Aluminum	VJ3
	Calcium	VJ3
	Chromium	J5
	Iron	J3 J4BV
	Magnesium	VJ3
	Manganese	J5
	Potassium	J6J3
	Sodium	J6J3
	Acenaphthene	O
	Acenaphthylene	O
	Anthracene	O
	Benzo(a)anthracene	O
	Benzo(b)fluoranthene	O
	Benzo(k)fluoranthene	O
	Benzo(g,h,i)perylene	O
	Benzo(a)pyrene	O
	Bis(2-chlorethoxy)methane	O
	Bis(2-chloroethyl)ether	O
	Bis(2-chloroisopropyl)ether	O
	4-Bromophenyl-phenylether	O
	Carbazole	O
	4-Chloroaniline	O
	2-Chloronaphthalene	O
	4-Chlorophenyl-phenylether	O
	Chrysene	O
	Dibenz(a,h)anthracene	O
	Dibenzofuran	O
	3,3-Dichlorobenzidine	O
	2,4-Dinitrotoluene	O
	2,6-Dinitrotoluene	O
	Fluoranthene	O
	Fluorene	O
	Hexachlorobenzene	O
	Hexachloro-1,3-butadiene	O
	Hexachlorocyclopentadiene	O
	Hexachloroethane	O
	Indeno(1,2,3-cd)pyrene	O
	Isophorone	O
	2-Methylnaphthalene	O
	Naphthalene	O
	2-Nitroaniline	O
	3-Nitroaniline	O
	4-Nitroaniline	O
	Nitrobenzene	O
	n-Nitrosodiphenylamine	O
	n-Nitrosodi-n-propylamine	O
	Phenanthrene	O
	Benzylbutyl phthalate	O
	Bis(2-ethylhexyl)phthalate	O
	Di-n-butyl phthalate	O
	Diethyl phthalate	O
	Dimethyl phthalate	O
	Di-n-octyl phthalate	O
	Pyrene	O
	1,2,4-Trichlorobenzene	O
	4-Chloro-3-methylphenol	O
	2-Chlorophenol	O
	2,4-Dichlorophenol	O
	2,4-Dimethylphenol	O
	4,6-Dinitro-2-methylphenol	O
	2,4-Dinitrophenol	O
	2-Nitrophenol	O
	4-Nitrophenol	J4O
	Pentachlorophenol	O
	Phenol	O
	2,4,5-Trichlorophenol	O
	2,4,6-Trichlorophenol	O
	Nitrobenzene-d5	J2O
	2-Fluorobiphenyl	O

Attachment A
List of Analytes with QC Qualifiers

Sample #	Analyte	Qualifier
	p-Terphenyl-d14	O
	Phenol-d5	O
	2-Fluorophenol	J2O
	2,4,6-Tribromophenol	J2O
	4,4-DDT	J3
	Endosulfan I	J4J6
	Endosulfan II	J4
	Heptachlor	J3
	Methoxychlor	J3
	PCB 1016	J3J5
	PCB 1221	J3J5
	PCB 1232	J3J5
	PCB 1242	J3J5
	PCB 1248	J3J5
	PCB 1254	J3J5
	PCB 1260	J3J5

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J3	The associated batch QC was outside the established quality control range for precision.
V	(ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries.
B	(EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable unless qualified as 'R' (Rejected).

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

	Control Limits				
2-Fluorophenol	31-119	Nitrobenzene-d5	43-118	Dibromfluoromethane	72-125
Phenol-d5	12-134	2-Fluorobiphenyl	45-128	Toluene-d8	79-120
2,4,6-Tribromophenol	51-141	Terphenyl-d14	43-137	4-Bromofluorobenzene	66-131

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
04/11/03 at 09:29:10

TSR Signing Reports: 350

Sample: L109468-01 Account: IMSENVVA Received: 04/04/03 09:00 Due Date: 04/09/03 00:00 RPT Date: 04/10/03 15:55
Added M6010TAL, Cn, SV8270TCL, V8260TCL -jh 4/7
Sample: L109468-02 Account: IMSENVVA Received: 04/04/03 09:00 Due Date: 04/09/03 00:00 RPT Date: 04/10/03 15:55

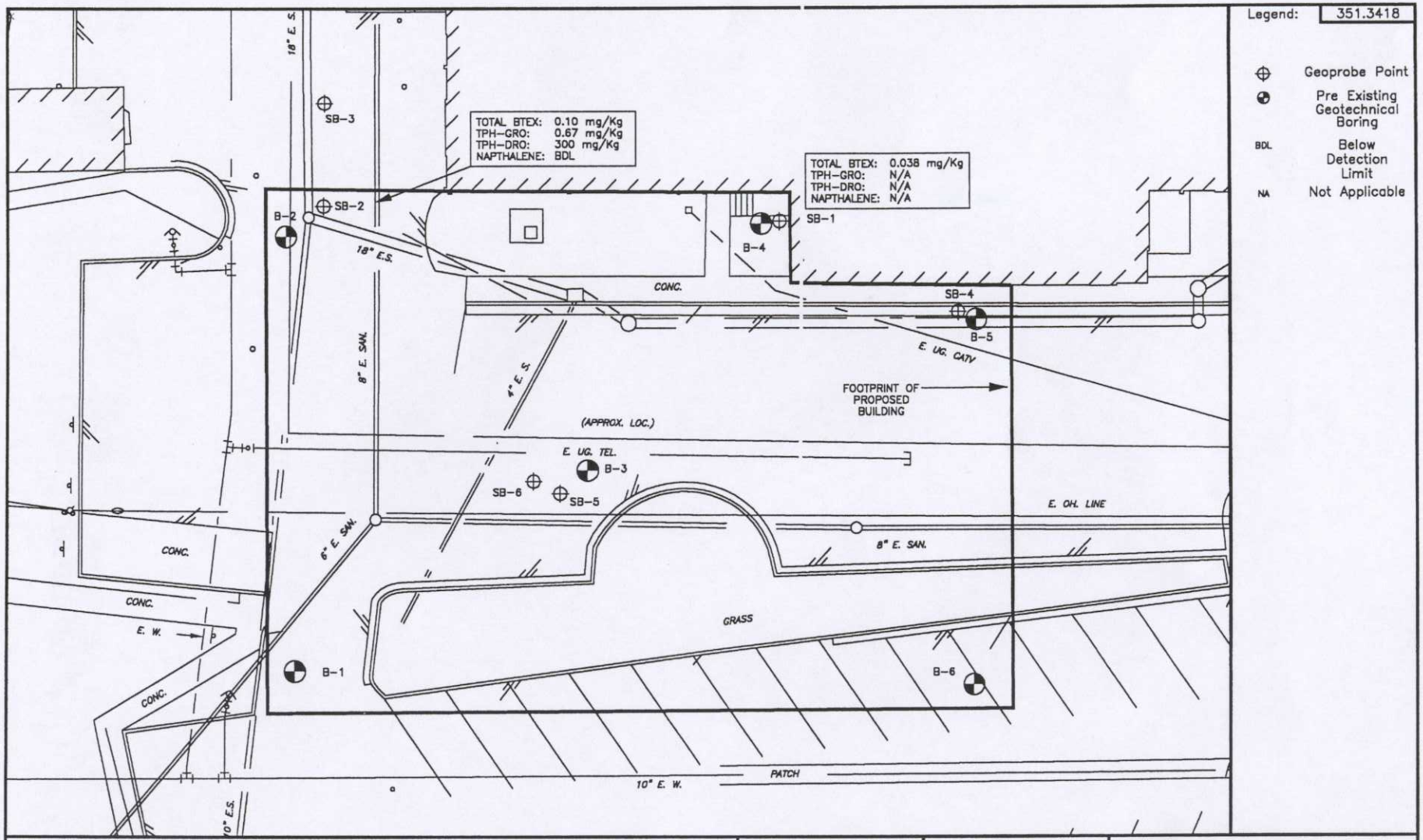

Figure 3: Site map illustrating adsorbed phase analytical concentrations. Data collected on April 3, 2003.

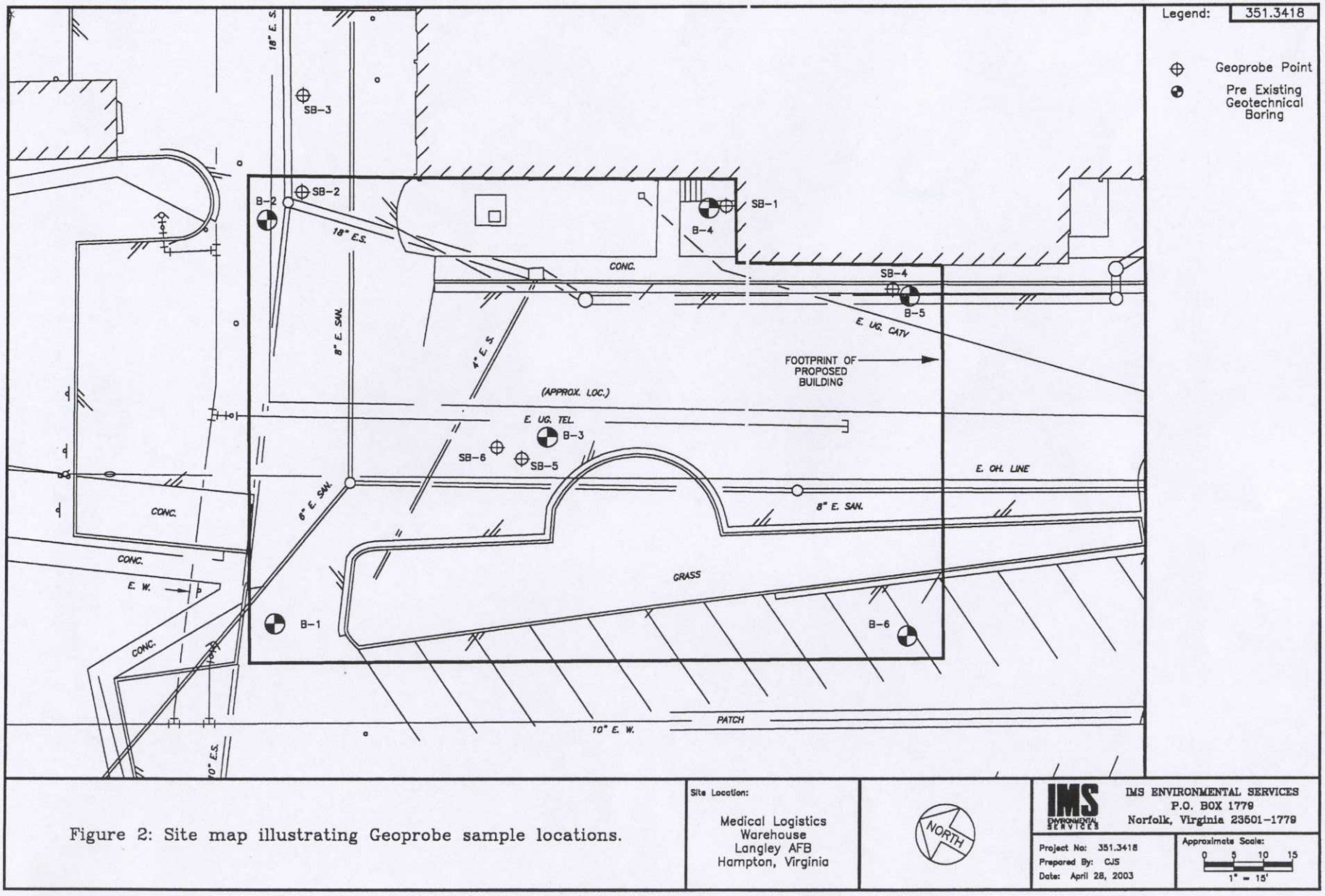

Figure 2: Site map illustrating Geoprobe sample locations.

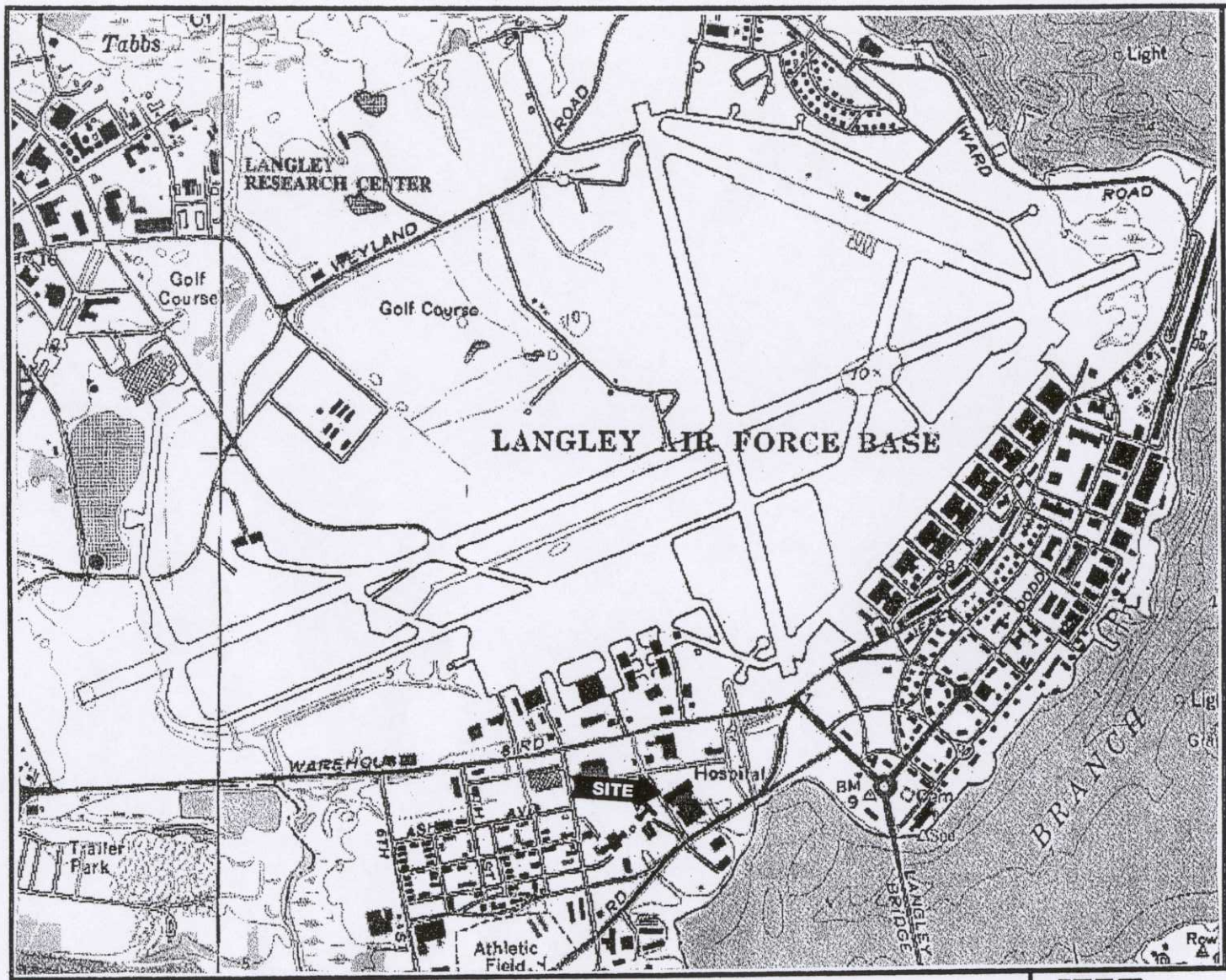

Figure 1: Portion of U.S.G.S. Hampton, Virginia topographic map illustrating the location and topography of the site.

IMS ENVIRONMENTAL SERVICES
P.O. BOX 1779
Norfolk, Virginia 23501–1779

Project No: Langley AFB
Prepared By: CJS
Date: April 29, 2003

Approximate Scale:
1 : 24,000